

FIGURE 1

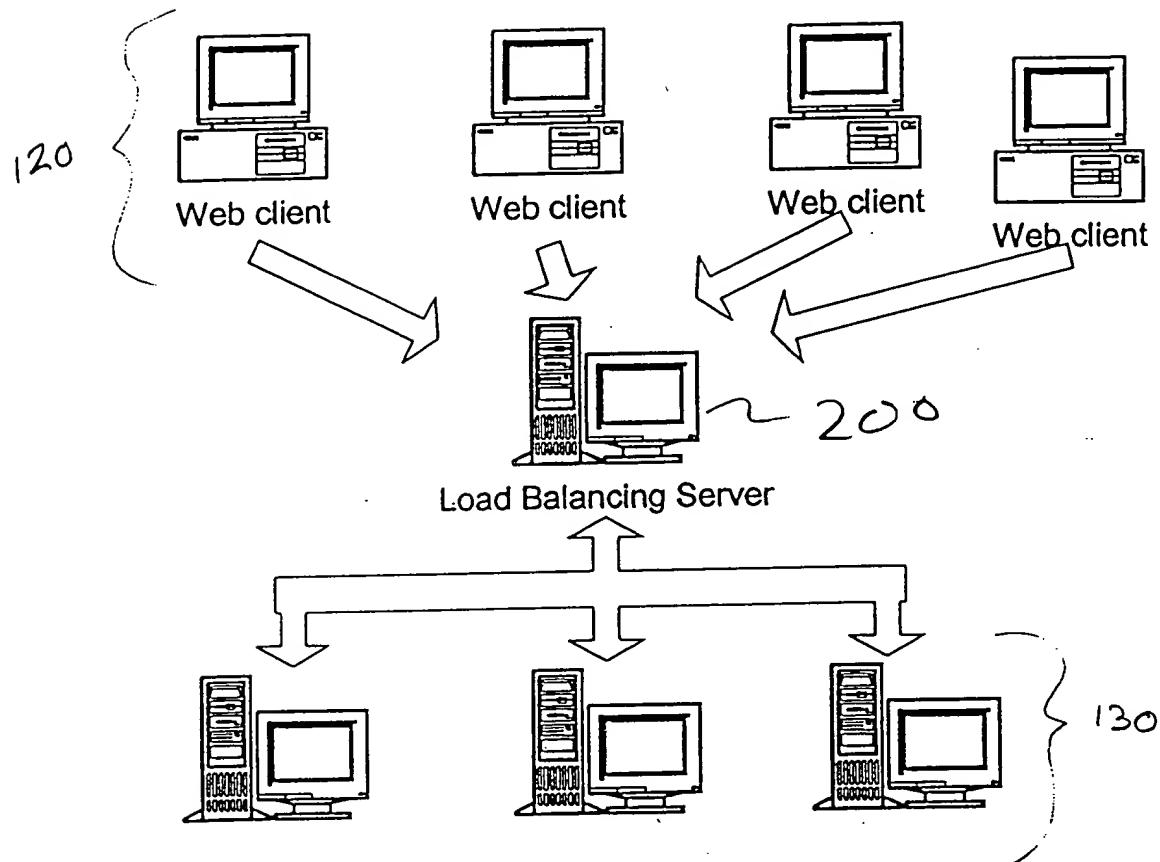


Figure 2 — Machine Scalability Using Load Balancing

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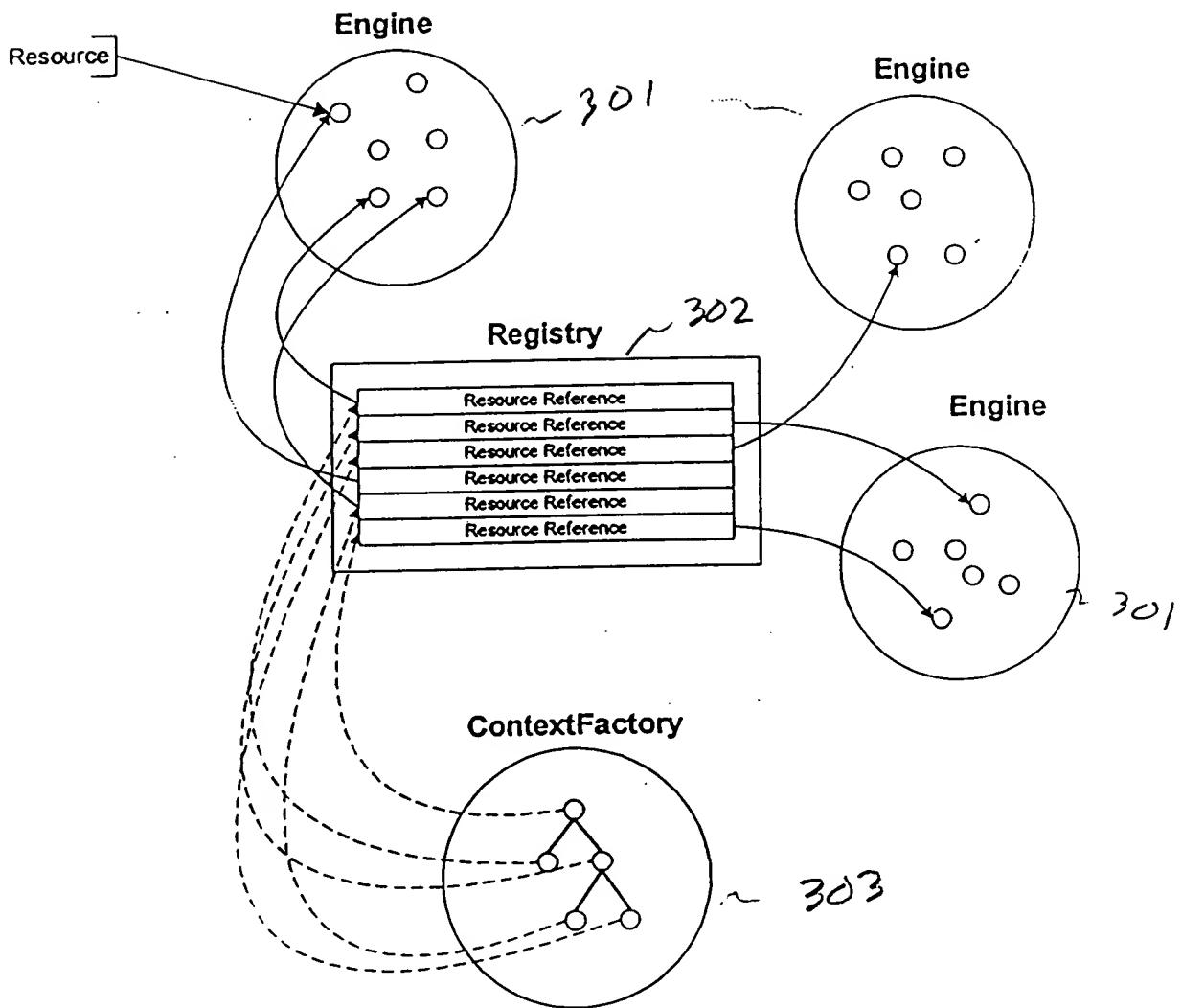


Figure 3 -- Engine/Registry Model

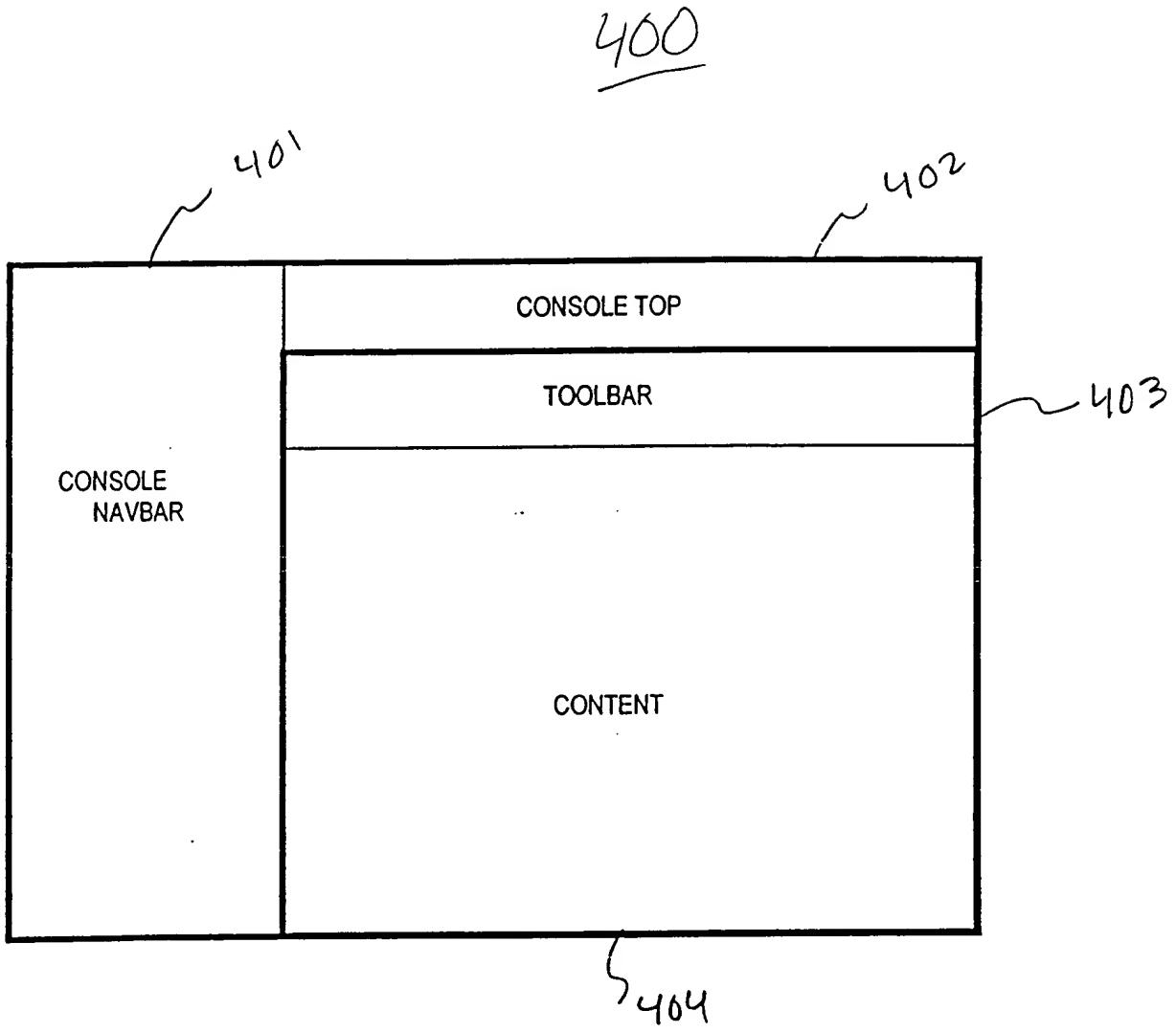


FIGURE 4

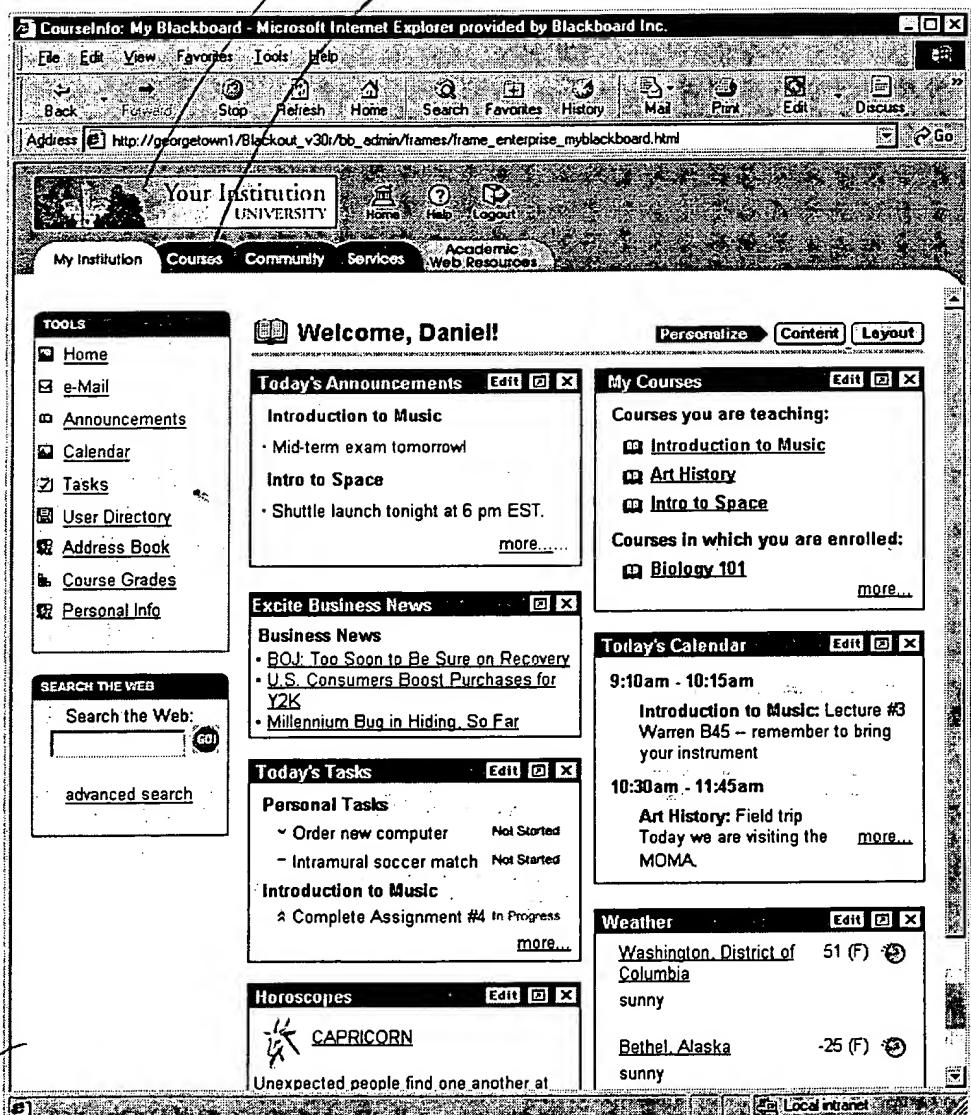


FIG. 5

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File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address: http://georgetown1/blackout_v30/bb_admin/themes/frame_enterprise_courses.htm

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources

COURSES > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Announcements

Course Information

Staff Information

Course Documents

Assignments

Communication

External Links

Student Tools

Resources

Course Map

Control Panel

Introduction to Music

music 101

Music Theory Basic
- Music Notation
- Key Signatures
- Time Signatures

Announcements

Posted in the Last Two Weeks

Subject: Course Packets

Posted by Rachael

The library has printed an additional 25 course packets. If you have up, please drop by the library and purchase one. They are available!

Subject: Assignment #3 Office Hours

Posted by Rachael

Assignment #3 Office Hours have been changed from 2:00-3:00 to 3:45

Today Last 2 Weeks Last Month All

Course Contents - Microsoft

Course Contents

click on any box to expand

Course Information

Staff Information

Course Documents

Assignments

Communication

External Links

Today Last 2 Weeks Last Month All

Course Contents - Microsoft Internet Explorer

Course Contents

(click on any book to expand)

- Course Information**
 - [Course Information](#)
 - [Class Information](#)
 - [Communication](#)
- Course Documents**
 - [Week One: Introduction](#)
 - [The Course](#)
 - [Syllabus](#)
- Assignments**
 - [Final](#)
 - [Discussions](#)
- Communication**
 - [Course Links](#)
 - [Edublog: Poetry by William Shakespeare](#)
 - [Edublog: Poems by William Shakespeare](#)
 - [Finalists](#)
 - [My English Literature Portfolio](#)
 - [The English Literature Portfolio](#)
 - [The English Literature Library](#)
 - [The Virtual Library: English Literature](#)
- Student Tours**

Fig. 7

The screenshot shows a Microsoft Internet Explorer window with the following details:

- Title Bar:** CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig
- Menu Bar:** File Edit View Favorites Tools Help
- Address Bar:** Address E Http://blackout.blackboard.com/course/instructor/index.htm
- Page Content:**
 - Header:** Your Institution UNIVERSITY
 - Navigation:** My Institution Courses Community Services Academic Web Resources Enterprise Admin
 - User Information:** John Wayne
 - Sidebar:** Announcements, Course Information, Staff Information, Course Documents, Assignments, Communication, External Links, Student Tools, Resources, Course Map, My Blackboard, Search, Logout.
 - Course Image:** A thumbnail image of a person playing a guitar in front of a chalkboard labeled "MUSIC 101". Below the image is a list: Miss Tracy Rains, Music Notation, Note Signatures, Time Signatures.
 - Section:** Announcements
 - Announcements List:**
 - Subject:** Class location change
We've moved to room 101
Posted by Fitz McPhail on May 19, 2000
 - Subject:** Greeting
Welcome MCCC
Posted by Jonathan Goldstein on May 16, 2000
 - Subject:** A new quiz has been posted.
To begin taking the quiz titled [NYCTA](#) click here.
Please answer these questions carefully.
Posted by Fitz McPhail on May 10, 2000
- Taskbar:** Shows various open windows including Internet Explorer, Microsoft Word documents, and system icons.

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History

Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Please check your announcements on a daily basis.
Thanks, Stacey

Announcements Course Information Staff Information Course Documents Assignments Communication External Links Student Tools Resources Course Map My Blackboard Search Logout

Subject: Course Map Posted by Jonathan Goldstein on Feb 17, 2000

Welcome to your new course
You can navigate your course by using the map below.

Course Contents

(click on any book to expand)

- Course Information
- Staff Information
- Course Documents
- Assignments
- Communication
- External Links
- Student Tools

Subject: WELCOME TO MUSIC 101! Posted by Daniel Cane on Feb 8, 2000

Use the buttons provided on the left side of your screen to navigate the CourseSite. Begin by clicking the COURSE INFORMATION button to view important information before beginning the course.

Today Last 2 Weeks Last Month All Shows

802

Start Do ANYTHING Inbox Mail Exploring D... Text on BB... CourseInfo... Pg Q.doc... Document2... 33 PM

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902

Course Contents

(click on any book to expand)

- Course Information
 - Course Projects
 - Welcome
 - Royals Roads Content
 - The Primary Course Objectives
 - Course Materials
 - Course Information
 - Course Projects
 - Course Goals
 - Course Information
 - User Folder
- Test Information
- Staff Information
 - Sabine Peter
 - John Catherine
 - Summer John
- Course Documents
- Assignments
 - Physics in Music - Multimedia Presentation
 - Mathematics in Music
 - Harmonic Progression
- Surveys
- Quizzes
- Communication
 - Send Email
 - Discussion Board
 - Student Roster
 - Virtual Chat
 - Student Homepage
 - Group Homepage
- External Links
- Student Tools

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Document1 | Fig P.doc | Fig U.doc | Course C. | Fig C.doc | Fig C.doc

F16.9

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help
Back Search Favorites History
Address http://blackout.blackboard.com/course/instructor/index.htm

Your institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

John Wayne

Assignments (102)

Current Location: Assignments

1004 Physics in Music - Multimedia Presentation
Link to File
Please view the following video prior to class on Wednesday, February 16. Our class discussion on that day will focus on the intertwining of physics and music. Don't worry though, you don't need to have a physics degree to understand.

1006 Mathematics in Music
Link to File
Please read the attached document and be prepared to discuss it in Friday February 18th's class.

1008 External Links
1010 Student Tools
1012 Surveys
1014 Harmonic Progression
Link to File
Please review the attached document for class on Wednesday, February 23.

1000 Quizzes

Click to collapse

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Internet 3:43 PM

FIG. 10

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File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30/bb_admin/frames/name_enterprise_courses.html

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources

COURSES > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Course Documents [Top]

Current Location: Course Documents

Syllabus Link to File

Session 1 The major scale, has no sharps or flats associated with any of the notes in the scale. Here is the C major scale in the treble staff.

(to display options for the animation below, move your mouse pointer atop the image and click the right mouse button)



Session 1: Lessons

Session 1: An Atlas of Consonance Link to File Please print this document and keep it available for fast review.

Session 2: Music Notation

Done Local internet

1100

5/5/11

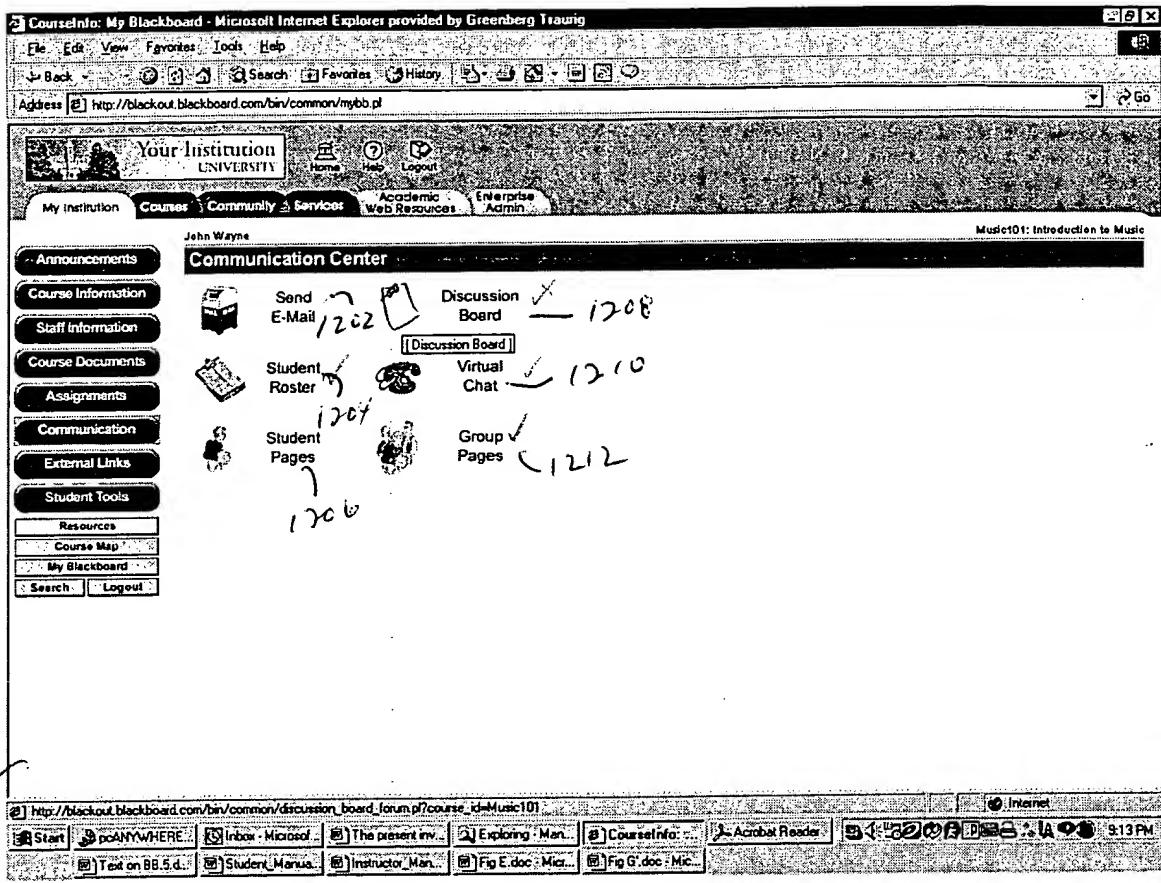


FIG. 12

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://blackout.blackboard.com/bb_admin/lames/lame_enterprise_courses.htm

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC

Blackboard Administrator MUSIC101: Introduction to Music

Communication Center

Discussion Board - Thread View

VIEW UNREAD MESSAGES EXPAND ALL COLLAPSE ALL SEARCH

OPTIONS

SELECT ALL DESELECT INVERT READ UNREAD COLLECT

<input type="checkbox"/> This is a top level thread	Cane, Daniel	25-Feb-2000
<input type="checkbox"/> This is a reply to your top level thread	Chi, Timothy	26-Feb-2000 New
<input type="checkbox"/> This is a top level thread	Cane, Daniel	28-Feb-2000 New
<input type="checkbox"/> Hello World!	Klimenko, Anatoliy	27-Feb-2000 New
<input type="checkbox"/> Re: Hello World!	Klimenko, Anatolly	28-Feb-2000 New

[Click Here for Archives]

Sort By: Default

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FIG. 13

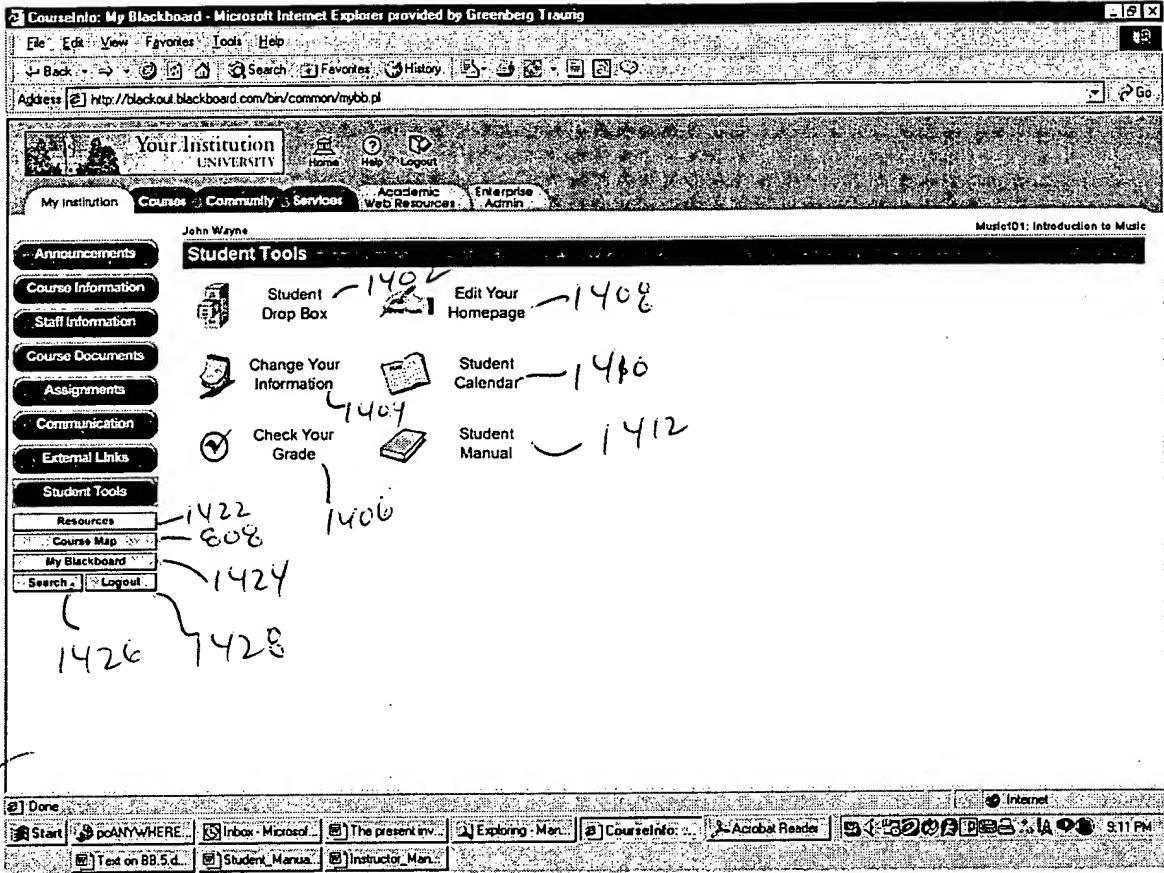


FIG. 14

John Wayne

Music101: Introduction to Music

Student Tools**Student DropBox**

Use your student drop box to submit files to your instructor. Also, your instructor can return your files to you with comments attached.

**Current Files in your DropBox**

Note: If you want to save a file, right click on the Link Name and choose Save Link As

File Name	Link Name	File Size	Status
none	none	none	none

[Remove Files]

**Add File to DropBox**

Click the Browse button to select the file to attach from your computer.
Be sure to specify a linkname for your file.

File to Upload:

Name of Link to File:

(Example: Homework One, Assignment One)

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<input type="text"/>	<input type="button" value="Browse..."/>
<input type="text"/>	
<input type="button" value="Send File to Instructor"/>	

◀ Back

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FIG 15

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History Go

Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

My institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL

MUSIC101: Introduction to Music Dr. Tim Cane, Instructor

1604

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Start pcANYW... Inbox... Exploring... Text on B... Counsel... Fig Q.doc... Document... Document... 3:20 PM 3:52 PM

Fig P.doc Fig U.doc... Fig C.doc... Fig C.doc... Fig C.doc...

1602

FIG. 16

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help
 Back Search Favorites History
 Address http://blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY
 My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > ANNOUNCEMENTS

Announcements : View Today

Add Announce

VIEW TODAY VIEW LAST 7 DAYS VIEW LAST 30 DAYS VIEW ALL

Wednesday, March 15, 2000

1706

Permanent: Final Exam has moved!!!!
 Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7pm.
 Posted by Timothy Ch... Modify Remove

1702

Permanent: Final Exam has moved!!!!
 Due to the leaky roof in Warren B45, we have moved the exam to Hollister B14. The exam still begins promptly at 7pm.
 Posted by Timothy Ch... Modify Remove

1704

Wednesday, Mar 15, 2000 : New Floods Threaten Mozambique
 Two days of heavy rain have disrupted the distribution of food to flooded communities in central Mozambique. The main road from the port of Beira to the small town of Save has again been cut. Helicopters were called in on Tuesday to rescue 30 people and sacks of food from vehicles trapped on the road by flood water.
 Posted by Dr. Kargatis Modify Remove

Wednesday, Mar 15, 2000 : NCAA: Michigan St, Arizona in First-Day Action
 Big Ten Conference champion Michigan State, a Final Four team last season, and Pac-10 winner Arizona are the leading seeds in action when the NCAA Tournament – and March Madness – begins Thursday. Michigan State (26-7) is the top team in the Midwest, a region which features Big 12 champion Iowa State, Atlantic Coast Conference runner-up Maryland, Big East regular season co-champion Syracuse, and traditional powers Kentucky and UCLA. Arizona (26-6) earned the top seed in the West region after completing a sweep of Pac-10 co-champion Stanford last week. Big East tournament winner St. John's, Oklahoma, Louisiana State, Texas and Purdue are the top teams in the region. Michigan State, seeking its first national championship since Magic Johnson led the team to a title in 1979, faces 16th-seeded Valparaiso (19-12) Thursday night in Cleveland. The Spartans lost to Duke in last year's Final Four.
 Posted by Dr. Kargatis Modify Remove

1700

Done Start pcANYWHERE Inbox - Mac Exploring - D Text on BB... CourseInfo... Fig V.doc... Document2... 3:55 PM
 Document2... Fig P.doc... Fig U.doc... Fig C.doc... Fig C.doc... Fig C.doc...

FIG. 17

FIG. 18

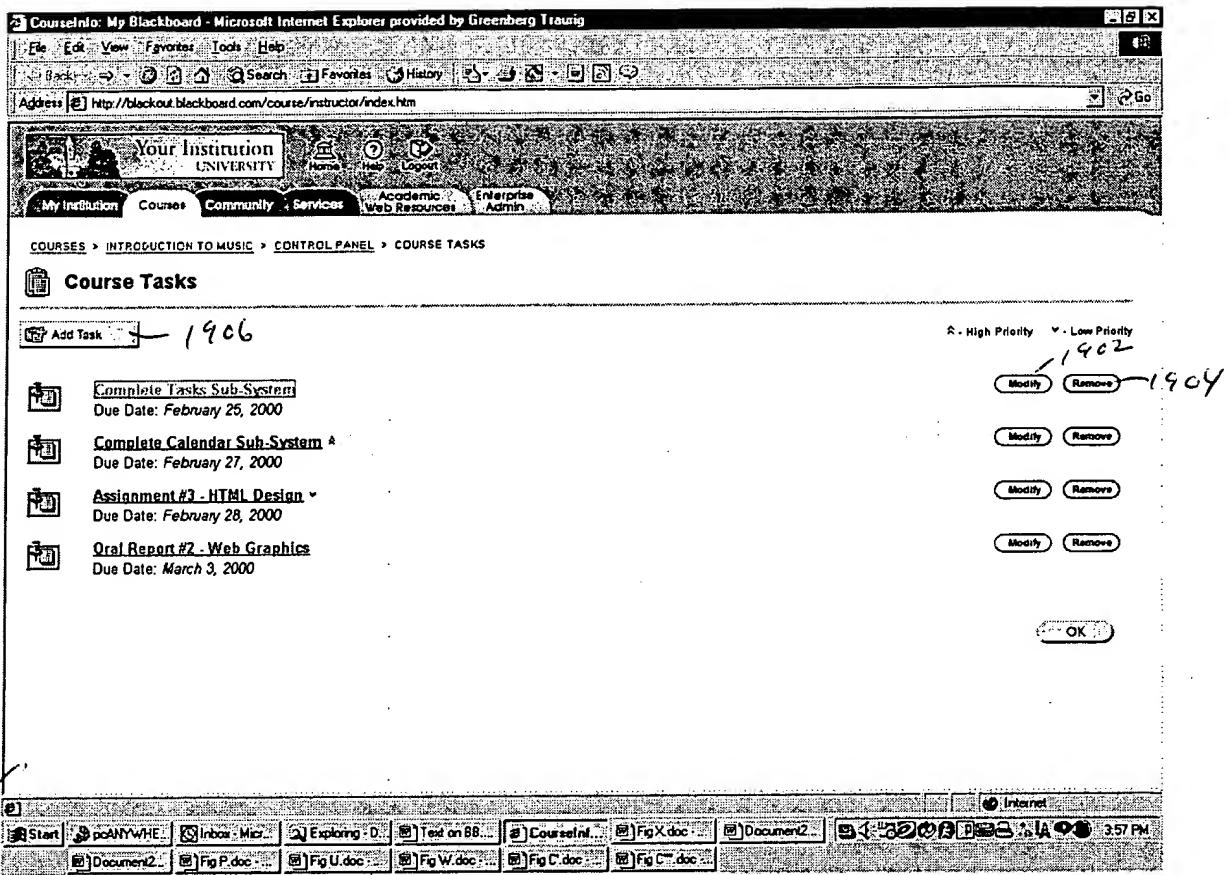


Fig 19

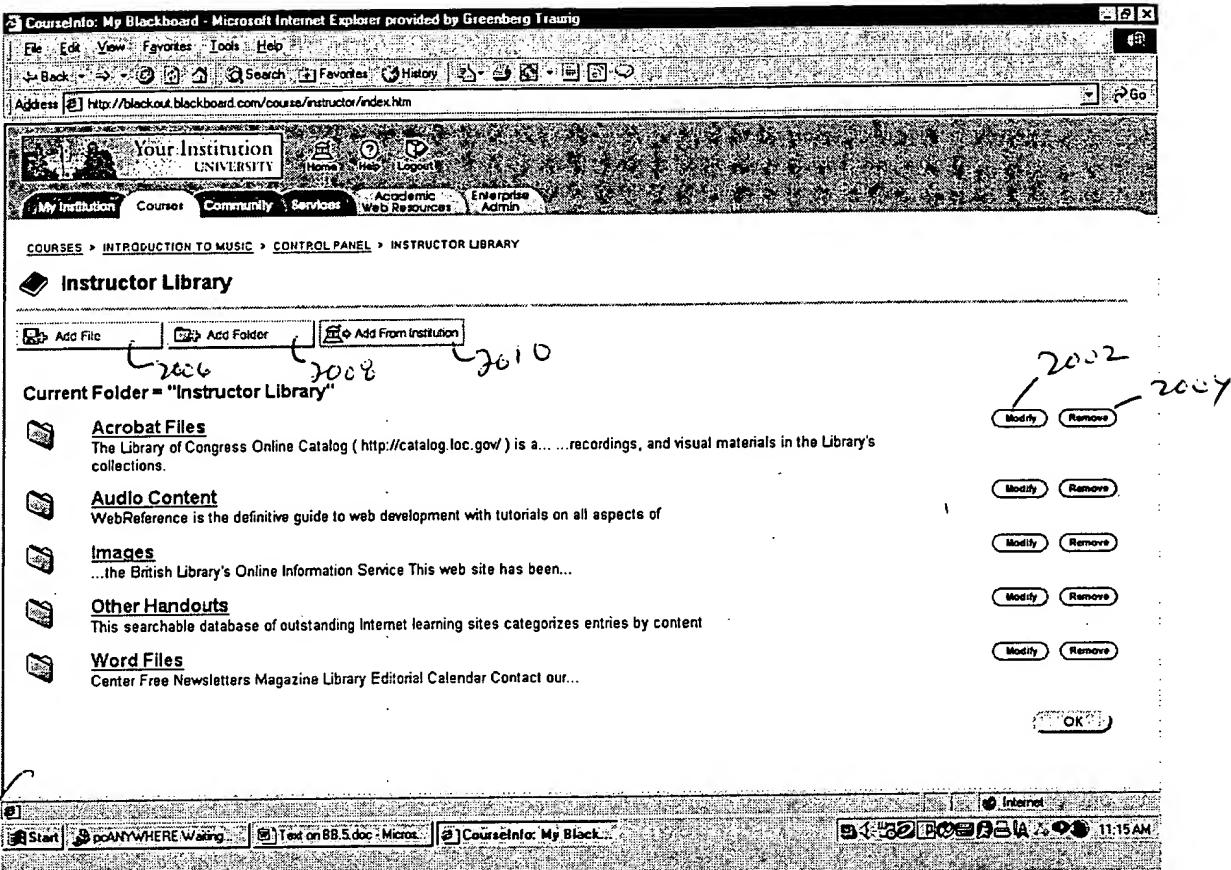


FIG. 20

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Forward Stop Search Favorites History Go

Address: http://Blackout.blackboard.com/course/instructor/index.htm

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > DIGITAL DROPBOX

Digital Dropbox

Add File Send File 2102

Assignment #2 (3260)
Submitted by: Daniel Cane
Received on: February 25, 2000 9:25am Remove

Assignment #2 (4120)
Submitted by: Tim Chi
Received on: February 24, 2000 8:27pm Remove

Assignment #1 (920)
Submitted by: Emilia Ramos
Received on: February 24, 2000 4:48pm Remove

Assignment #3 Draft (12930)
Posted on: February 20, 2000 Remove

Lecture #3 Outline (29460)
Posted on: February 09, 2000 Remove

Page: 1 2 3 4 5 [Next >>] OK

2100

Fig. 21

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30r/bb_admin/frames/frame_enterprise_courses.html Go

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources

COURSES > INTRODUCTION TO MUSIC

MUSIC101: Introduction to Music

Course Gradebook

Students whose last names begin with: Show All

Items that are grouped by: Show All Go

Completed	Participation	Space 301-C Quiz	Assignment #1	Total Points	
- no info	Participation	Quiz	Assignment		
- taken, but ungraded	Edit	Edit	Edit		
Arnold, Jeremy	Edit	-	-	0	
Baggins, T	Edit	80	50	315	
Bell, Norman	Edit	-	10	10	
Cane, Jon	Edit	72	25	251	
Chasen, Michael	Edit	-	25	-	25
Chi, Timothy	Edit	92	35	50	311
Clark, Andrea	Edit	100	20	50	285
Clark, Jim	Edit	75	-	50	220
Cox, Meg	Edit	-	25	-	25
Davies, Greg	Edit	-	-	-	0
wilkowski, francis	Edit	-	10	-	10
Points Possible	100	35	50	335	

Local intranet

2200

FIG. 22

COURSES > INTRODUCTION TO MUSIC > CONTROL PANEL > COURSE STATISTICS > REPORT

Course Statistics

Statistics Generated on Thursday, February 24, 2000 11:26:28 AM

Note: You may have to reload/refresh this page for the images to be correct.

Total Number of Accesses per Area — 2302

Number of Accesses over Time — 2304

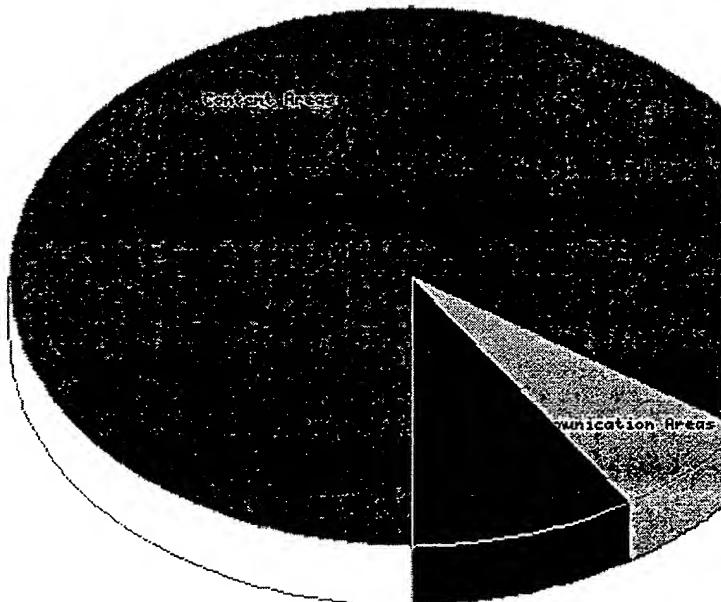
User Accesses per Hour of the Day — 2306

User Accesses per Day of the Week — 2308

Total Accesses by User — 2310

Total Number of Accesses per Area

Area Name	Hits	Percent
Content Areas	139	83.2 %
Communication Areas	10	5.98 %
Group Areas		0 %
Student Areas	15	8.98 %
Total	167	100 %



Number of Accesses over Time

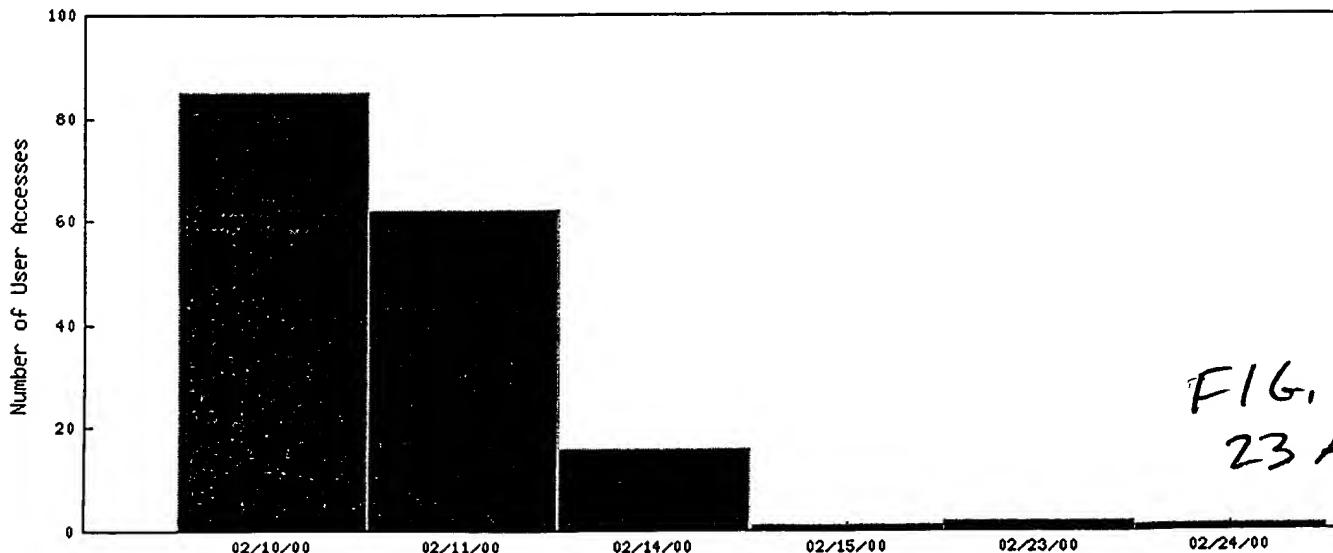
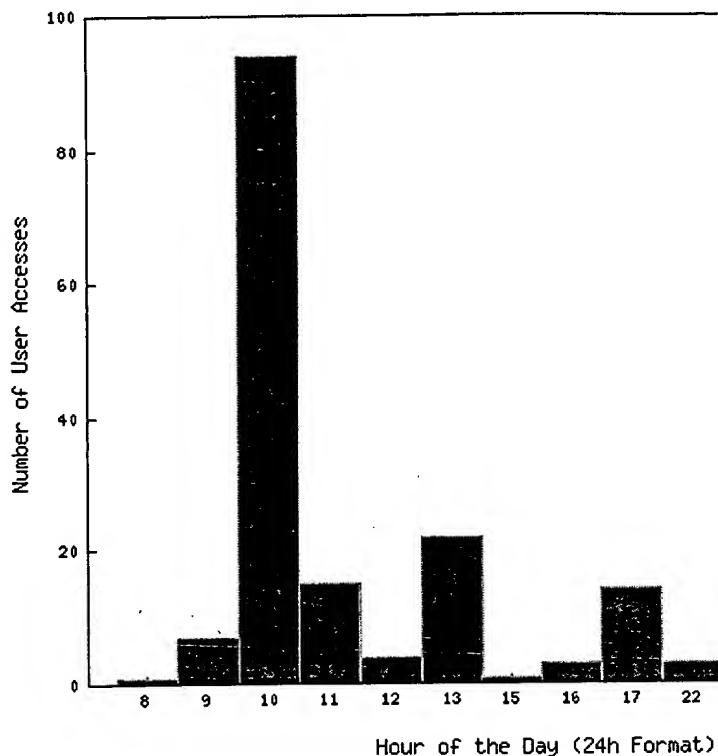


FIG.
23 A

User Accesses by Hour of the Day

Hour of The Day	Hits	Percent
8	1	0.59 %
9	7	4.19 %
10	94	56.2 %
11	15	8.98 %
12	4	2.39 %
13	22	13.1 %
15	1	0.59 %
16	3	1.79 %
17	14	8.38 %
22	3	1.79 %
23	3	1.79 %
Total	167	100 %

**User Accesses by Day of the Week**

Day of The Week	Hits	Percent
Monday	16	9.58 %
Tuesday	1	0.59 %
Wednesday	2	1.19 %
Thursday	86	51.4 %
Friday	62	37.1 %
Total	167	100 %

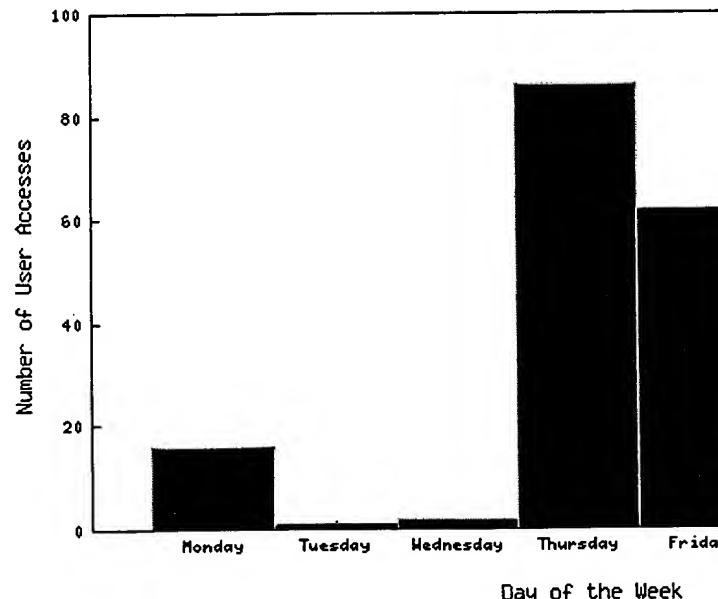


FIG.
23B

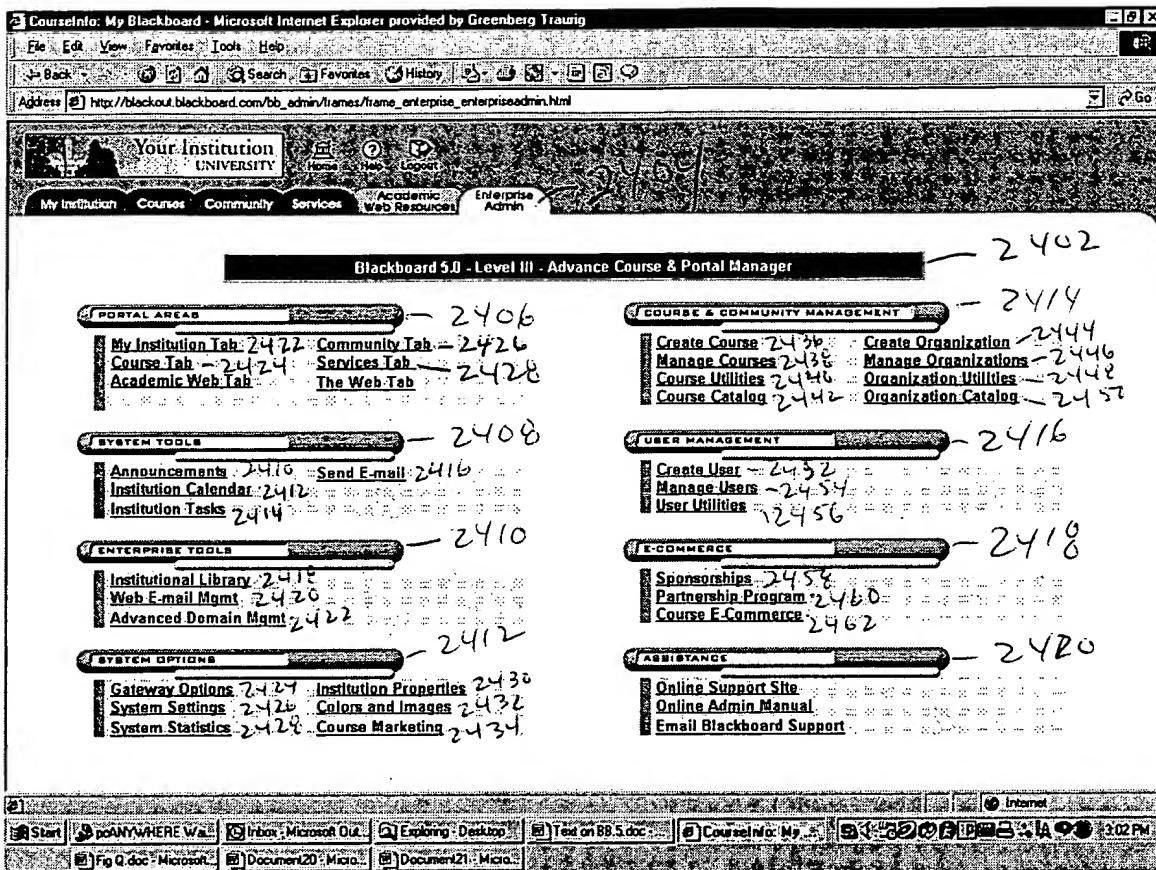


FIG. 24

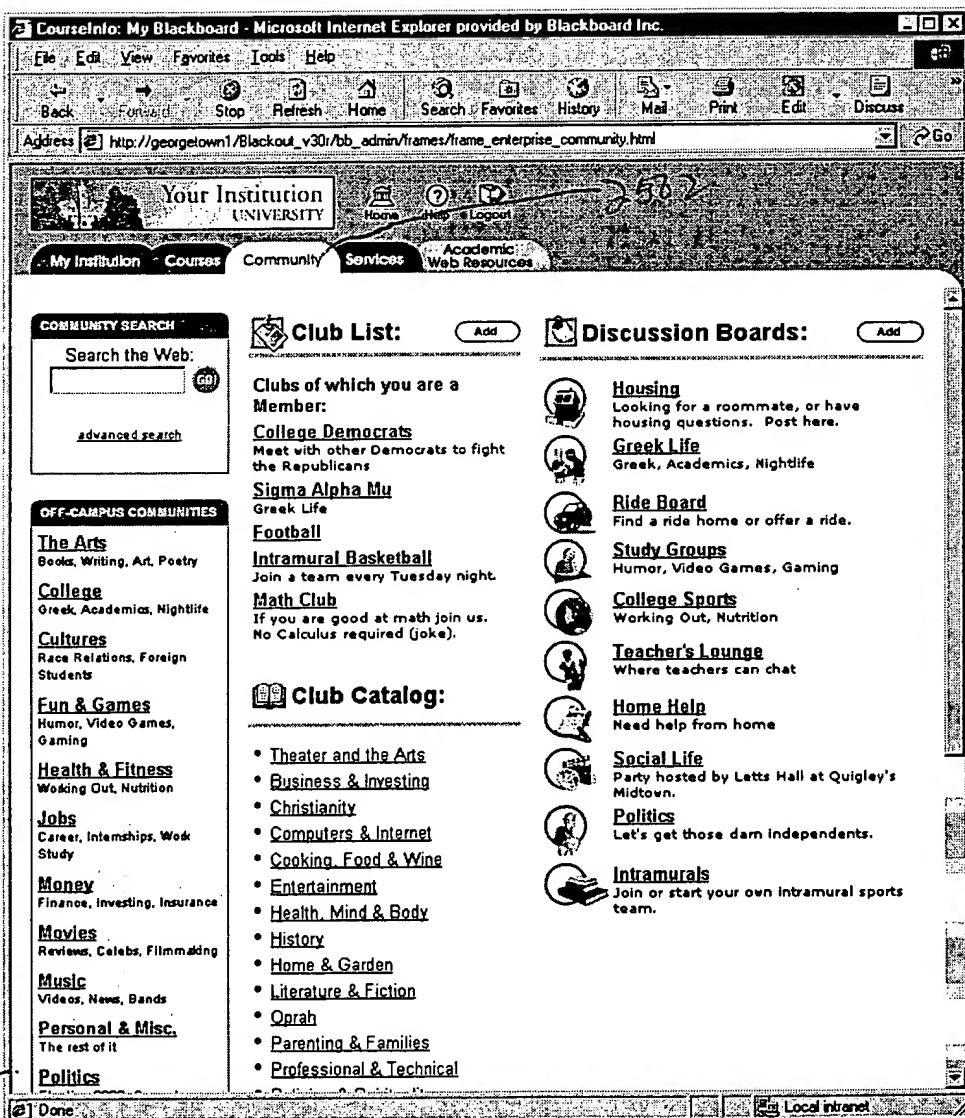


FIG. 25

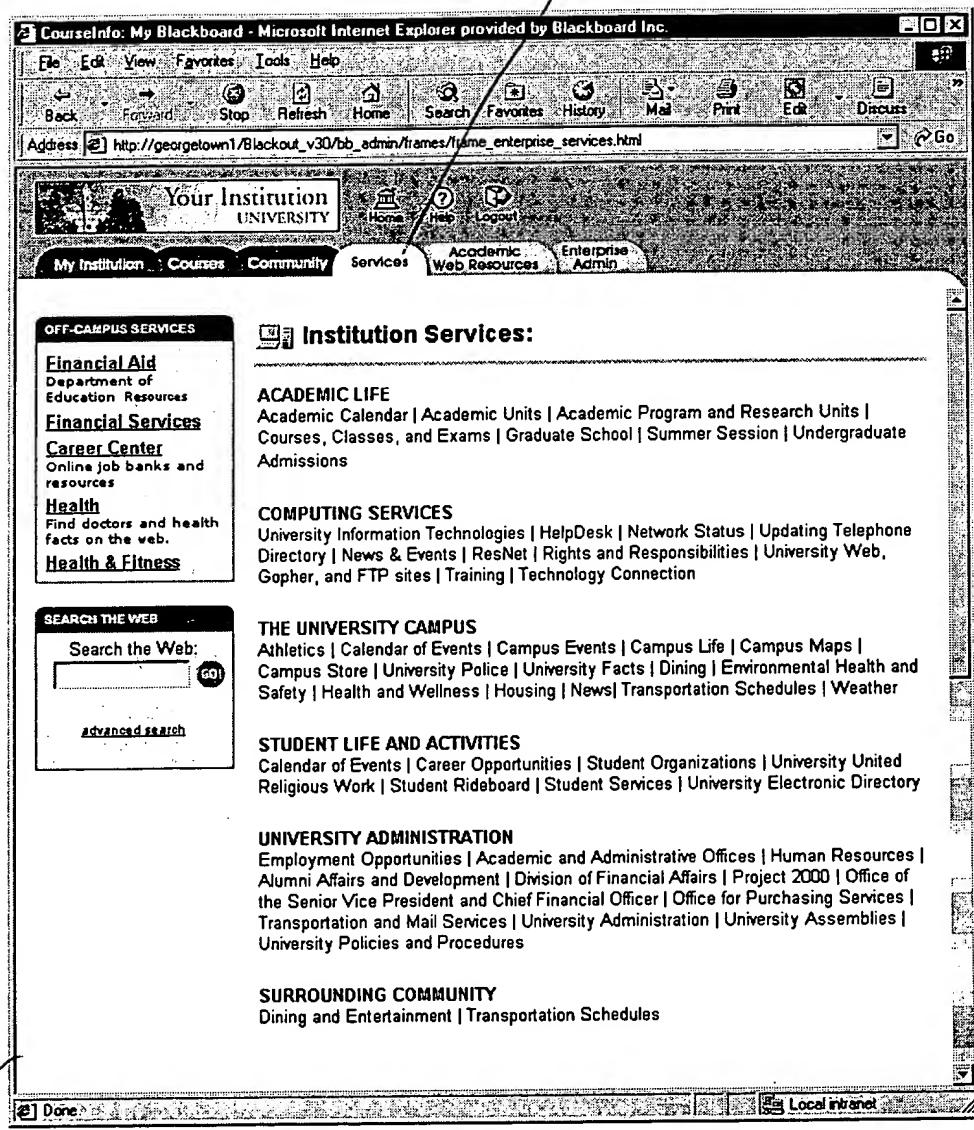
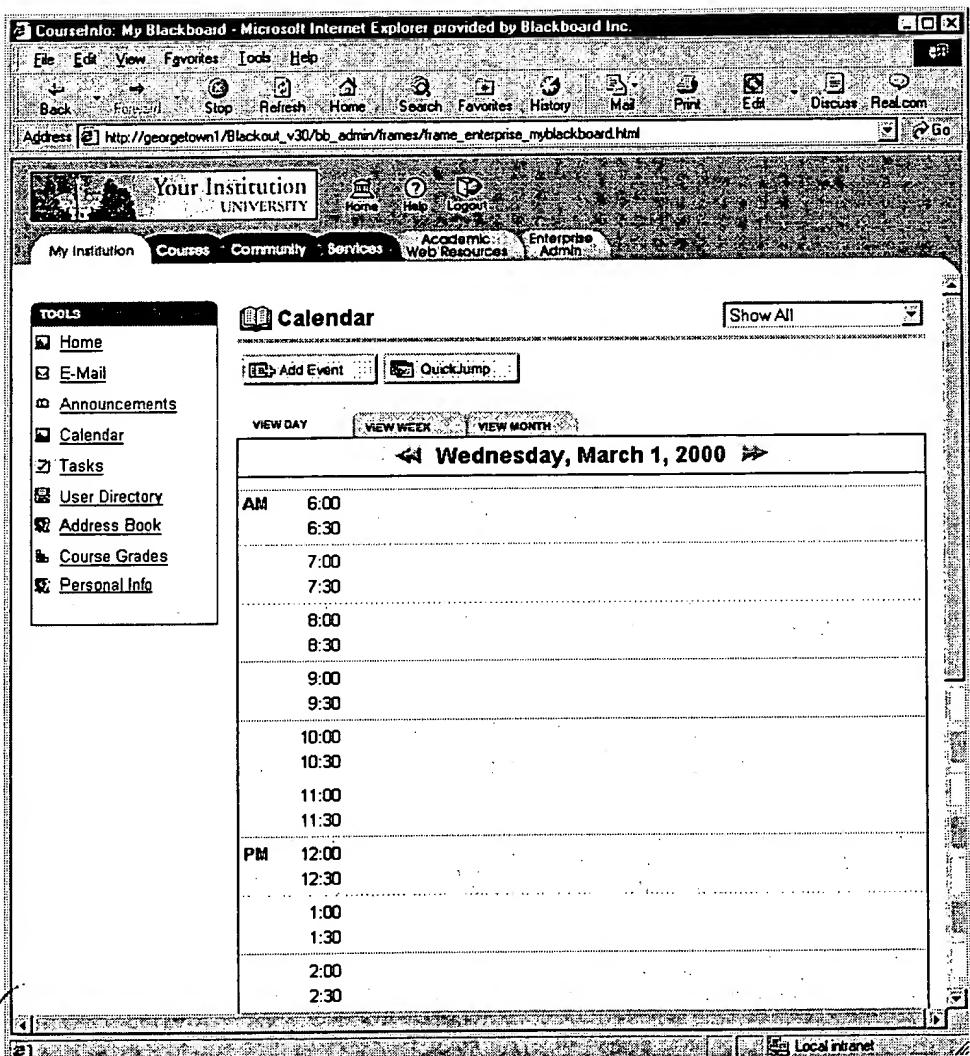
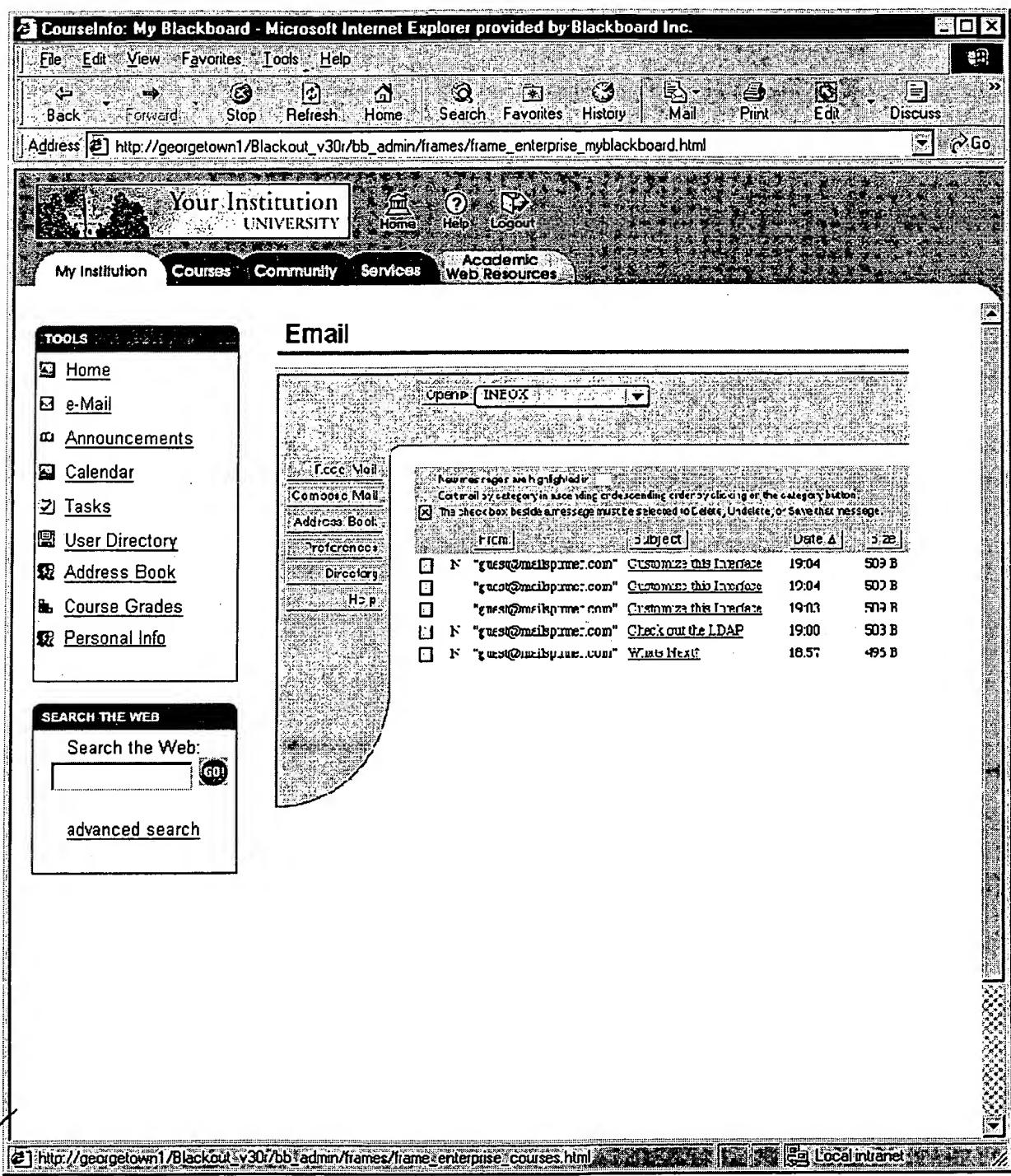


FIG. 26



2700

FIG. 27



740

FIG. 28

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History Go

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

ADMINISTRATION PANEL > CREATE NEW COURSE

Create A New Course

1 Course Information

Course Name:

Course ID:

Description:

2 Course Design

Button Type: Pattern Solid

Button Shape: Rectangular Rounded Ends Rounded Corners

Button Style: CLASSIC (RECOMMENDED) BEIGE STONE BLACK LOBE BLUE BRICK BLUE CONCRETE BLUE CORAL BLUE LACE

3 Course Options

Select Type: Subject Area: SELECT A SUBJECT AREA

Discipline: General

Guest Access: Guests are allowed to visit this course. Guests are not allowed to visit this course.

Available: Yes No

Guest Access: Guests are allowed to visit this course. Guests are not allowed to visit this course.

Available: Yes No

Select Course Catalog Category: Uncategorized

Course Cartridge: (optional) Please enter your Course Cartridge Access Key:
If you do not have an Access Key, please visit <http://cartridges.blackboard.com> to locate a Course Cartridge.

Instructor: Instructor ID: [List Users](#) Create New Instructor

4 Submit

Click "Submit" to finish. Click "Cancel" to end this process.

Cancel Submit

2900

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History Go

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterpriseadmin.html

Your Institution UNIVERSITY

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Guest Access: Guests are allowed to visit this course. Guests are not allowed to visit this course.

Available: Yes No

Select Course Catalog Category: Uncategorized

Course Cartridge: (optional) Please enter your Course Cartridge Access Key:
If you do not have an Access Key, please visit <http://cartridges.blackboard.com> to locate a Course Cartridge.

Instructor: Instructor ID: [List Users](#) Create New Instructor

4 Submit

Click "Submit" to finish. Click "Cancel" to end this process.

Cancel Submit

2900

2900

FIG. 29

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History Go

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterpriseadmin.htm

Your Institution UNIVERSITY Home Help Logout

My Institution > Courses > Community > Services Academic Web Resources Enterprise Admin

ADMINISTRATION PANEL > CREATE USER

Create User

1 Personal Information

'First Name: []

'Middle Name: []

'Last Name: []

'E-mail: []

Student ID: []

2 Account Information

'User Name: []

'Password: []

'Verify Password: []

3 Other Information

Start [] poANYWHERE Web [] Inbox - Microsoft Out [] Exploring - Desktop [] Test on BB5.doc [] CourseInfo: My... [] Internet [] 3:18 PM

[] Fig Q.doc - Microsoft... [] Document20 - Micro... [] Document21 - Micro... [] Fig P.doc - Microsoft... [] Fig S.doc - Microsoft...

FIG.
300

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History Go

Address http://blackout.blackboard.com/bb_admin/frames/frame_enterpriseadmin.htm

Your Institution UNIVERSITY Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Gender: Male Female

Birthday: January , 19

Education: Undergraduate Student

Company: []

Department: []

Job Title: []

Address: []

Address: (cont.) []

City: []

State / Province: []

Zip / Postal Code: []

Country: []

Web Site: []

Home Phone: []

Work Phone: []

Start [] poANYWHERE Web [] Inbox - Microsoft Out [] Exploring - Desktop [] Test on BB5.doc [] CourseInfo: My... [] Internet [] 3:18 PM

[] Fig Q.doc - Microsoft... [] Document20 - Micro... [] Document21 - Micro... [] Fig P.doc - Microsoft... [] Fig S.doc - Microsoft...

300

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Greenberg Traurig

File Edit View Favorites Tools Help

Back Search Favorites History Go

Address: http://blackout.blackboard.com/bb_admin/frames/frame_enterprise_enterprisadmin.html

Your Institution
UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Work Phone: _____

Work Fax: _____

Mobile Phone: _____

4 Role and Availability

Primary Institution Role: Student

Administrative User Role:
If you would like user to have an administrative role, please select the role:
(Note: Administrative Access grants the user access to the System Administration Control Panel)

None System Admin System Support
 Course Creator Account Administrator

5 Submit

* Required Field for Form Entry

Click "Submit" to finish. Click "Cancel" to end this process.

Cancel Submit

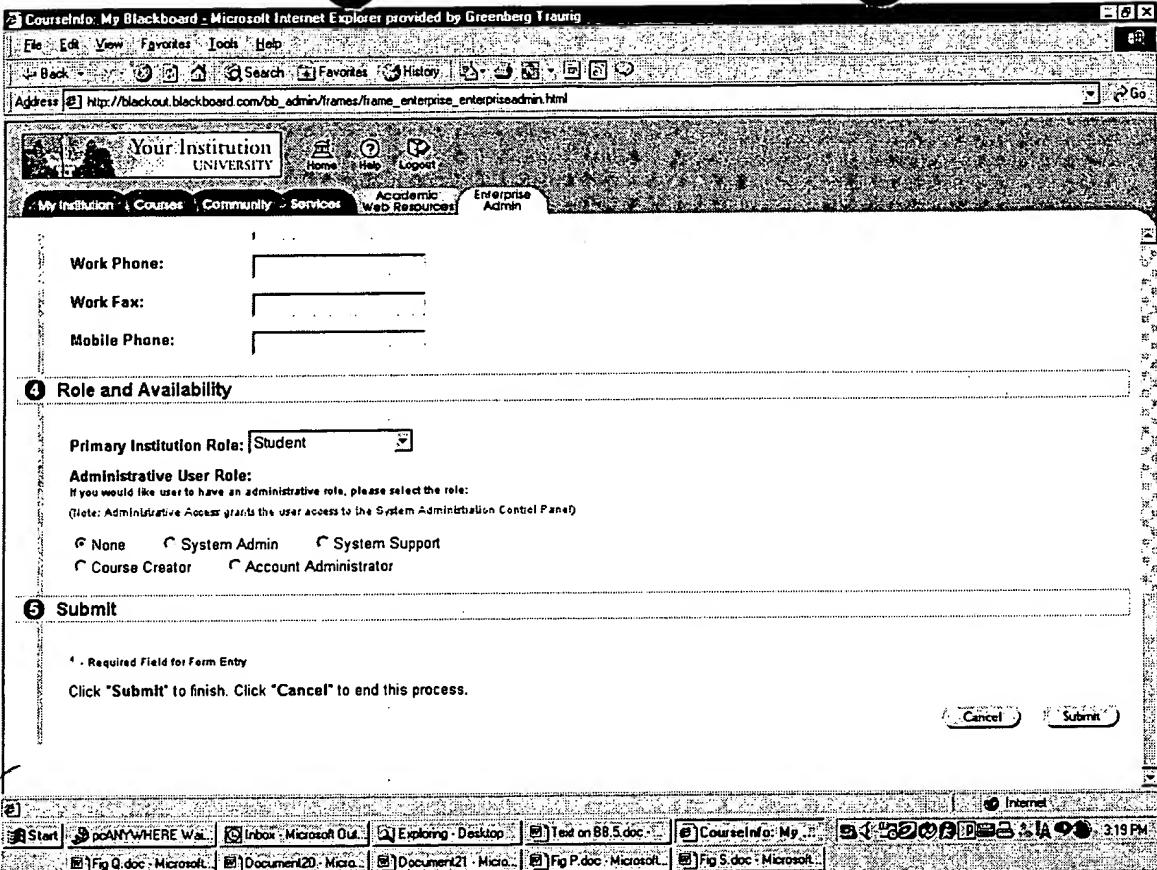


FIG 30B

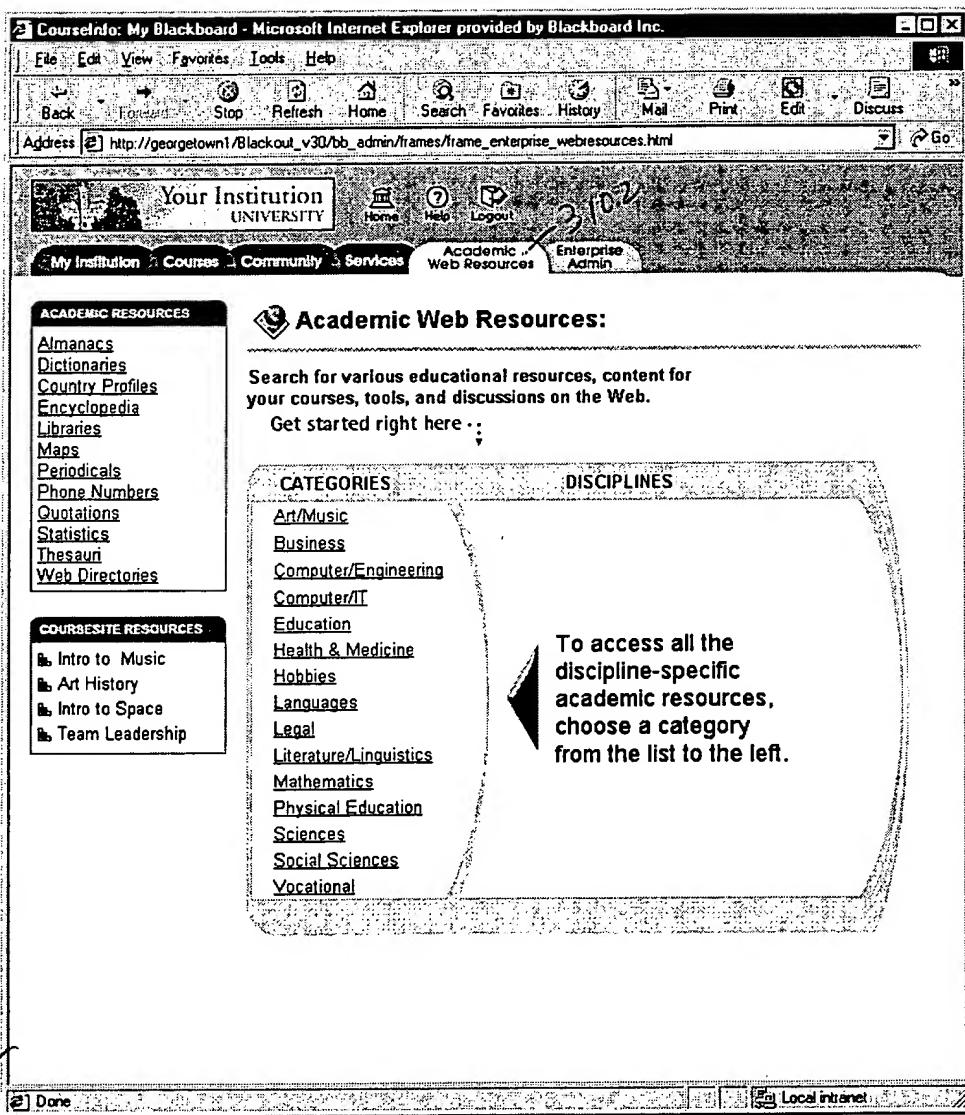


FIG. 31

3300

CourseInfo: My Blackboard - Microsoft Internet Explorer provided by Blackboard Inc.

File Edit View Favorites Tools Help

Back Forward Stop Refresh Home Search Favorites History Mail Print Edit Discuss

Address http://georgetown1/Blackout_v30/bb_admin/frames/frame_enterprise_webresources.html Go

Your Institution UNIVERSITY

Home Help Logout

My Institution Courses Community Services Academic Web Resources Enterprise Admin

Social Sciences and Social Study : History

News

Vietnam Starts Marking 1975 Battle Victories
Mar 10 - The Washington Times
HANOI - Vietnamese started celebrating yesterday the 25th anniversary of the victory of communist troops in the key town of Ban Me Thuot - a battle that marked the beginning of the end of the Vietnam War. [FULL STORY](#)

U.S. must support democracy - not just the military - in Colombia
Mar 10 - The Washington Times
The March 7 article "Homes, land abandoned as civil war continues" makes reference to how Colombia's civil war between leftist guerrillas and government security and paramilitary groups has expanded to the point where noncombatants are being affected. [FULL STORY](#)

F16s needed
Mar 10 - The Dominion
The RNZAF needs the most modern aircraft available to maintain the skills necessary for its attack and strike capability, not only for defence but to assist our close allies. [FULL STORY](#)

Reunion plain sailing
Mar 10 - Waikato Times
A perfect landing started a perfect reunion when World War II pilot Dusty Miller watched an immaculately rebuilt 1940 Hawker Hurricane touch down at Wanaka Airport yesterday. [FULL STORY](#)

Poor site testing threatens heritage
Mar 10 - The Irish Times
Archaeological treasures in the Republic are at risk of being destroyed because of inadequate site-testing by archaeologists, according to a report published yesterday.

Research Center

Periodical Search:

Boolean Search Natural Language Search

Search all articles Search only this discipline

Browse by Topic:

[Early National Period](#)
[Great Depression](#)
[Jacksonian America](#)
[Labor Movement](#)
[The Cold War](#)
[Vietnam War](#)
[World War I](#)
[World War II](#)

Web Search:

go!

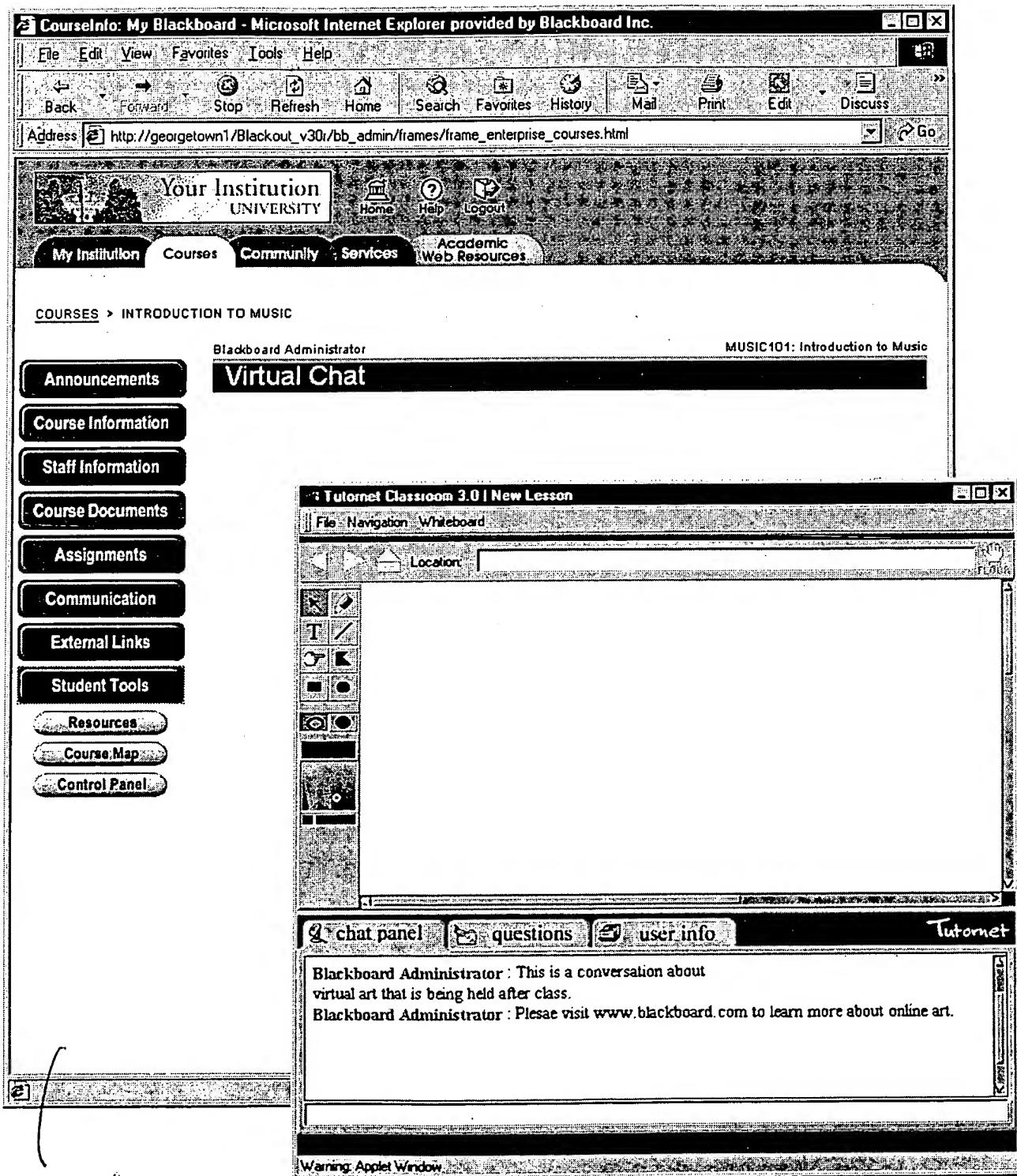
Communities

Social Sciences and Social Study for Students

Discussion Boards
[Learn about my civilization](#)

Local Intranet (Mixed)

FIG. 32



3300

FIG. 33

Linking to the E-Commerce Server

Myserver.blackboard.com

100

The link to butter passes the following
information:

name: Name of the purchaser
address_1
address_2
city
state
zip

country

price: price in USD that the user is being
asked to pay

order-id: null if butter should generate an
order number (default)

order-descr: Text description of what the
user is buying.

url: the location the referring server that
butter should return the user to after the
payment process is complete

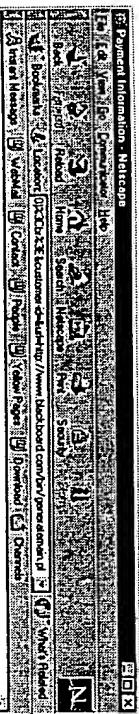
hyperlink



Figure 34

First E-Commerce Screen Display

Butter.blackboard.com



Accepts VISA, MC, Diner's Club, JCB and Carte Blanche (but not Amex)

Whatever user info is available is populated from the data passed from the previous page.

The unique order number displayed is dynamically generated by the server.

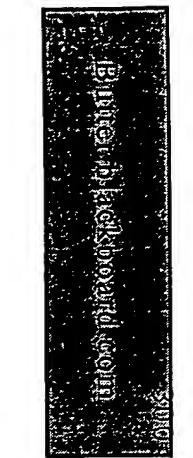
The Chosen services and price displayed are passed in from the previous screen.

The look and feel of this plate (and all butter e-commerce pages) can be modified by an HTML template. This template is selected as one of the script parameters.

This screenshot shows a purchase summary table with columns for Chosen Services, Registered Course, and Price. It lists "asdasdasd@452348" as the registered course and \$100.00 as the total price. Below the table is a "Credit Card Information" section with fields for Credit Card Type, Card Number, Expiration Date, and Name as it appears on card. A note at the bottom says "(Please be patient, it may take up to one minute to process your credit card.)".

Figure

Authorization Process



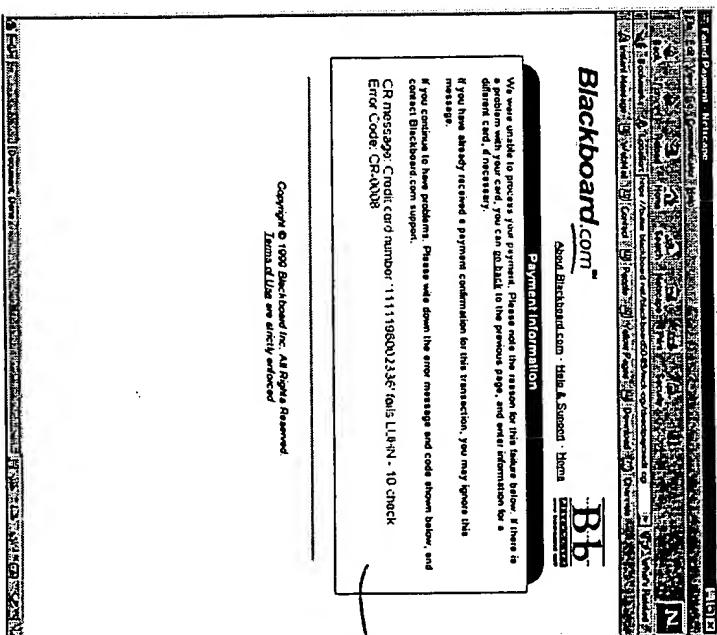
350

Port 80 Socket Authorization/Decline



316

- The authorization process takes a minute or so.
- If the card is rejected, a page like the one at right is displayed.
- If the card is accepted, the payment goes through, and the page on the next slide is shown.



320

Figure

36

Attorney Docket Number: 27578.012500

Second E-Commerce Screen Display

Butter.blackboard.com

The screenshot shows a payment confirmation page from Blackboard.com. At the top, it says "Payment Information Received". Below that, there's a "Payment Information" section with a "Confirmation ID": 98121401104652. It also lists the "Purchase Number", "Credit card", and "Total Price". A large button at the bottom says "YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED".

Payment Information

Confirmation ID: 98121401104652

Purchase Number: BACKOCOR (Partial number shown for security)

Credit card: 100.00

Total Price: 100.00

YOU MUST CLICK HERE TO RECEIVE THE SERVICES YOU PURCHASED
Coming to Course

Copyright © 1999 Blackboard Inc. All Rights Reserved.
Links on this page are strictly prohibited.

Payment is authorized and queued at Cybersash,
Inc for processing.

The payment will go through and appear in
Blackboard's Cybersash account within 12
hours.

There is no way that the user can back out at this
point without Blackboard issuing a manual
refund.

No services are provided yet. The user must
follow the link at the bottom of the page, or he
will receive nothing for his money.

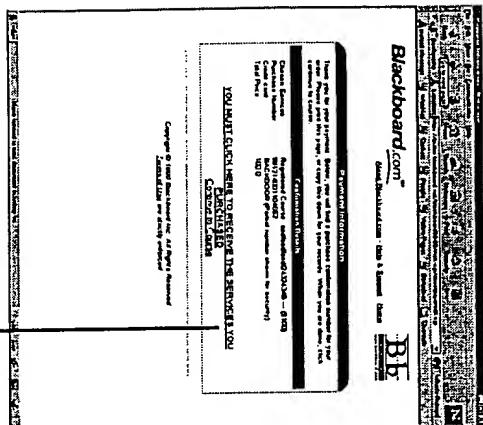
All links on this page are disabled except the one
that says "YOU MUST CLICK HERE". This
prevents users from failing to get their orders
filled.

A authorization code is calculated by the script as
a secure hash of the purchase price, the order id,
and a secret number.

Figure

Returning to the Originating Server

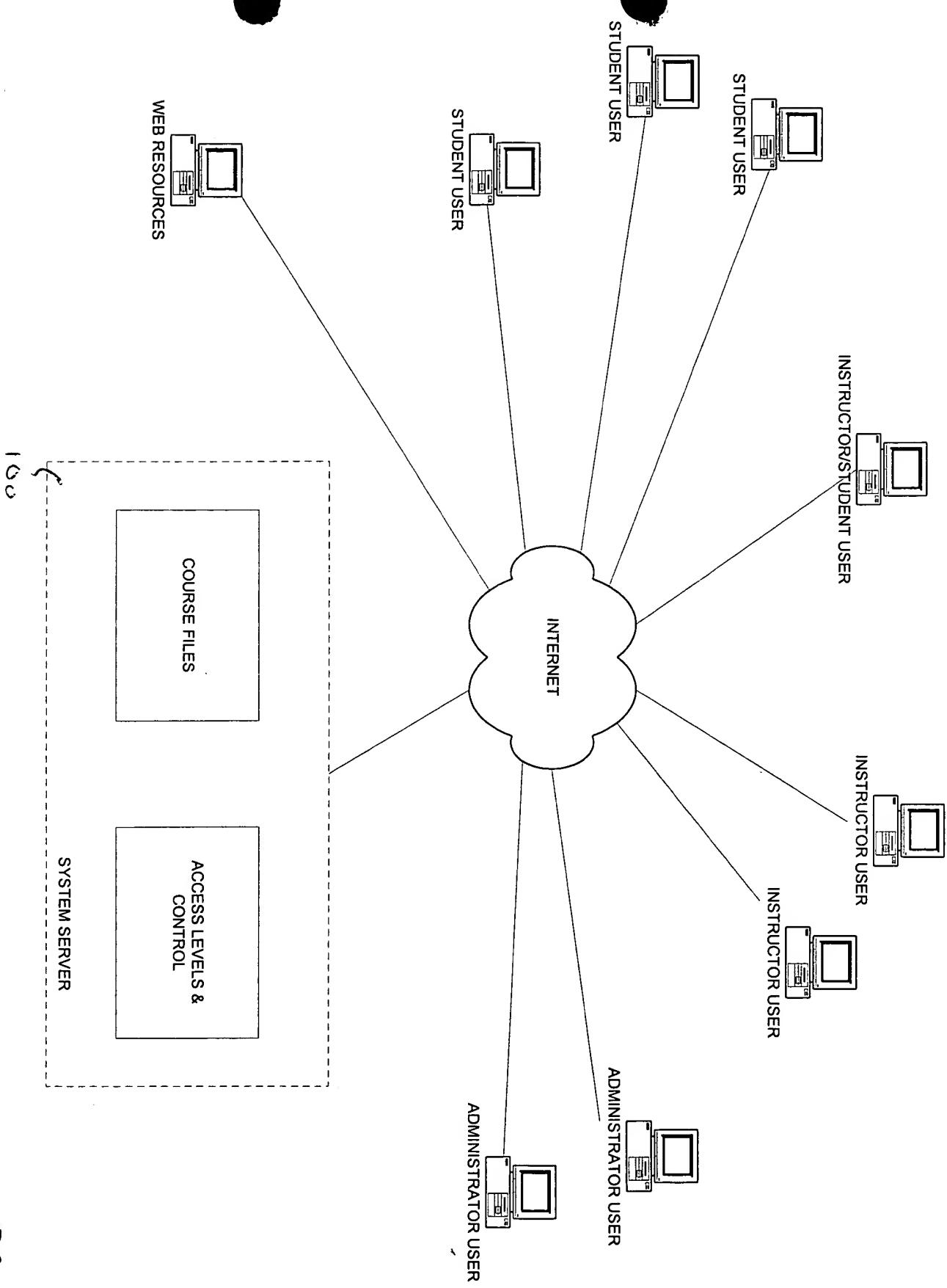
Butter.blackboard.com



- The link at the bottom of the page points back to the referring server using the location passed in the URL parameter to the first butter script.
- The authorization code, the order_id and a subset of the credit card digits (show_card) are passed back as parameters.
- The authorization code should be checked upon return by making an identical hash calculation. If the two hash values match, the order should be fulfilled, otherwise, and error should be shown.



Figure



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